FIG. 1A

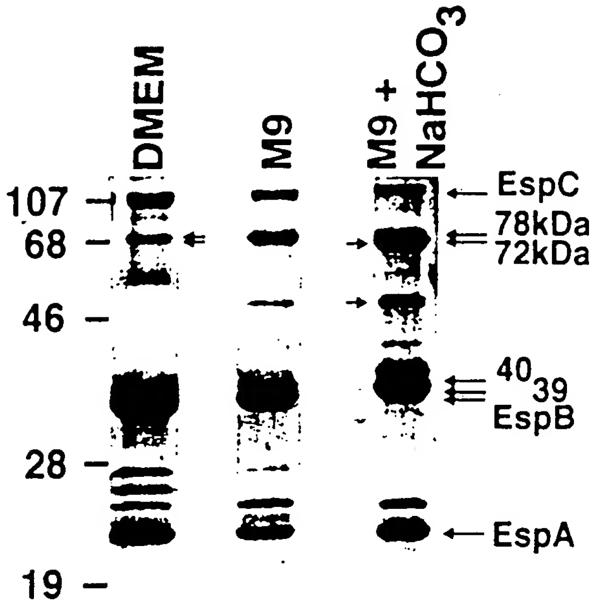

DMEM
M9
M9 + NaHCO$_3$
107
68
46
28
19
EspC
78kDa
72kDa
40
39
EspB
EspA

FIG. 1B

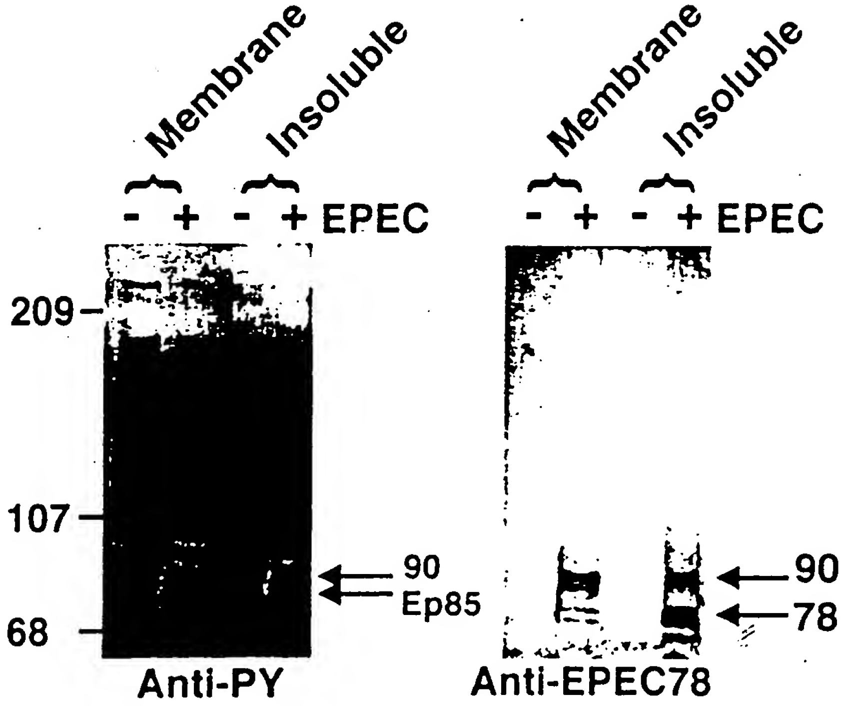

Membrane
Insoluble
- + - + EPEC
209
107
68
90
Ep85
Anti-PY
Membrane
Insoluble
- + - + EPEC
90
78
Anti-EPEC78

FIG. 2A

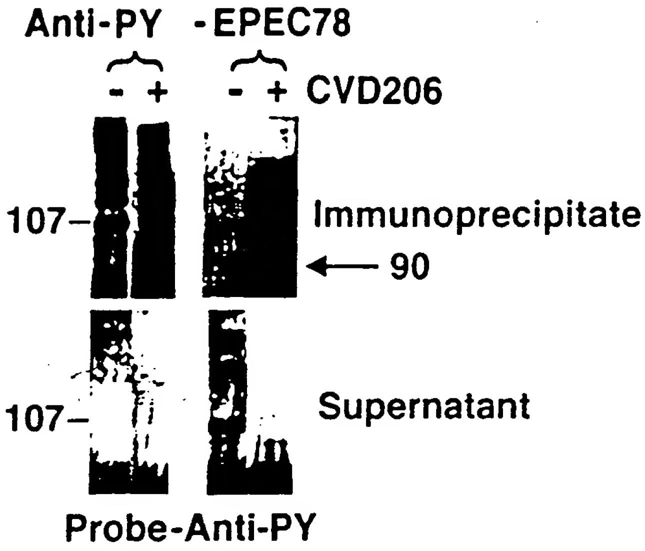

Anti-PY -EPEC78
- + - + CVD206
107–
Immunoprecipitate
← 90
107–
Supernatant
Probe-Anti-PY

FIG. 2B

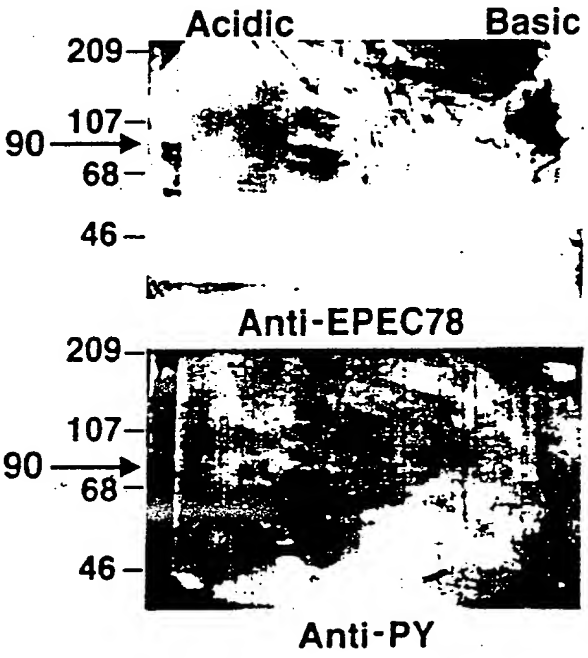

Acidic
Basic
209–
107–
90 →
68–
46–
Anti-EPEC78
209–
107–
90 →
68–
46–
Anti-PY

FIG. 3

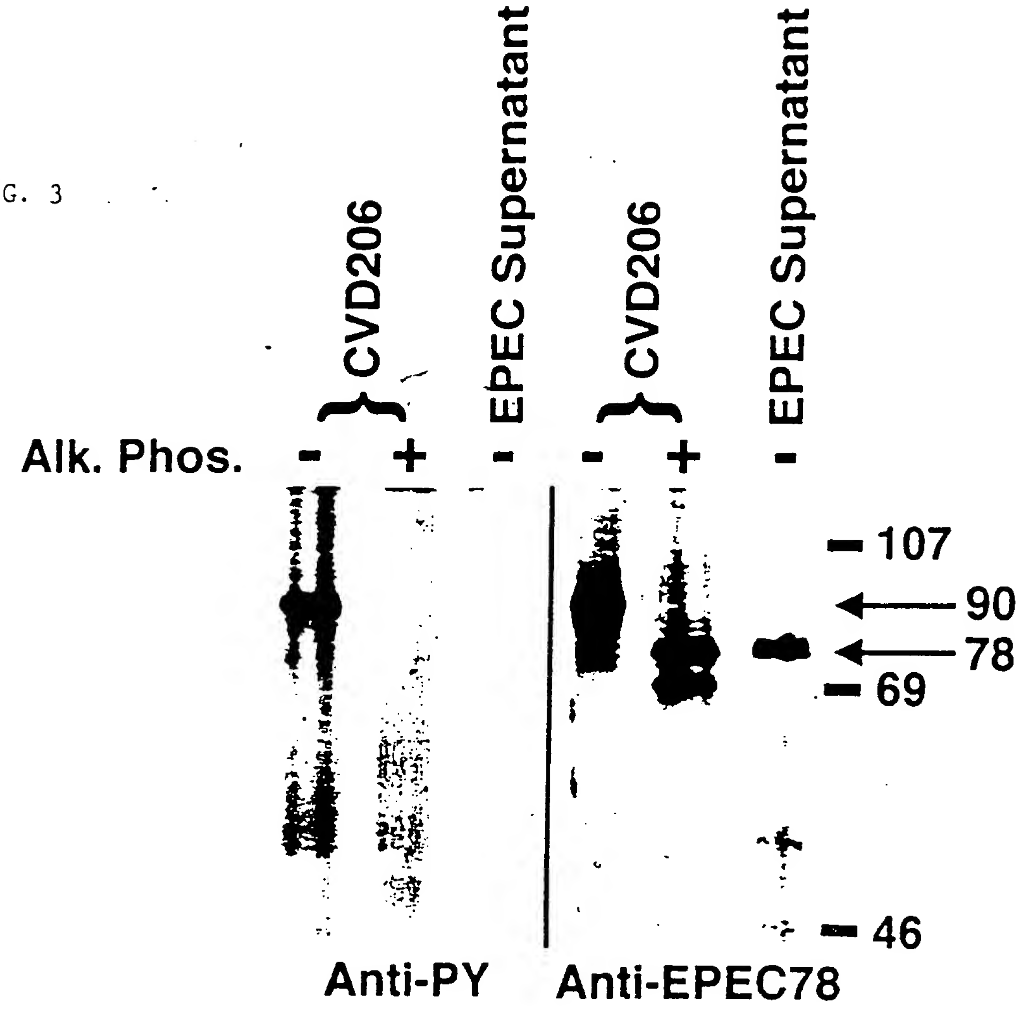

CVD206
EPEC Supernatant
CVD206
EPEC Supernatant
Alk. Phos.
-
+
-
-
+
-
107
90
78
69
46
Anti-PY
Anti-EPEC78

FIG. 4

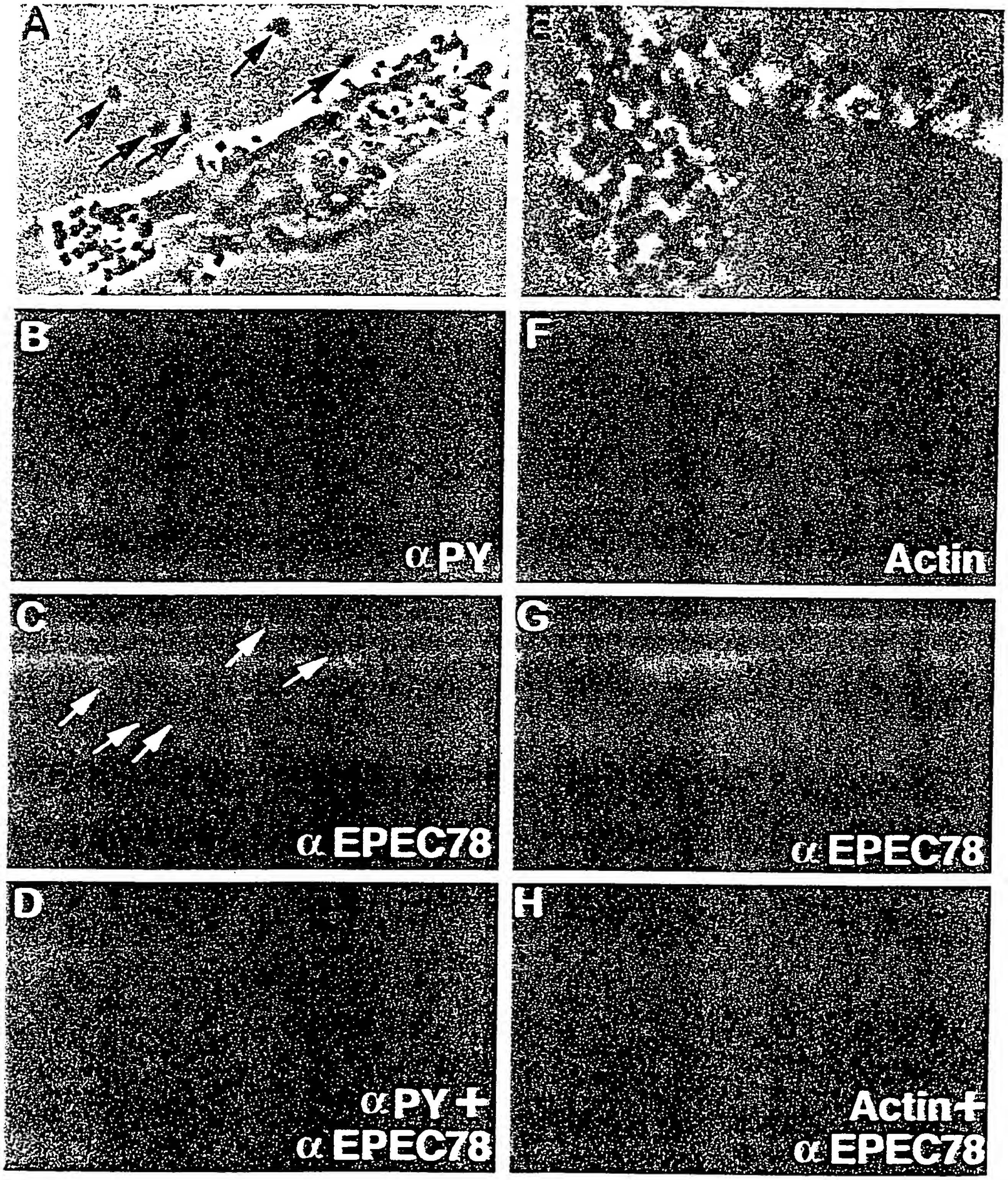

A
E
B
αPY
F
Actin
C
α EPEC78
G
α EPEC78
D
αPY +
α EPEC78
H
Actin +
α EPEC78

FIG. 5

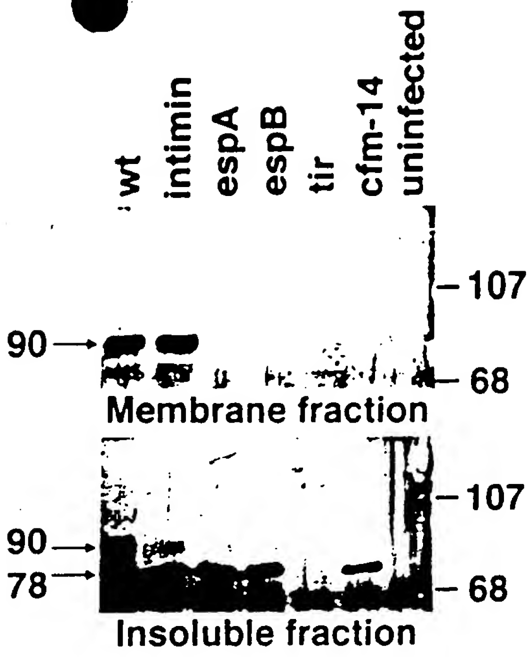

wt
intimin
espA
espB
tir
cfm-14
uninfected
107
90
68
Membrane fraction
107
90
78
68
Insoluble fraction

FIG. 6A

```
CGGCTGCATACCGTTACGTCATAGTAATATAAAGGAACGTGTCAAATTTCTAAATAAAAG   60
    tir ->
GATATATGTATGCCTATTGGTAACCTTGGTAATAATGTAAATGGCAATCATTTAATTCCC   120
          M  P  I  G  N  L  G  N  N  V  N  G  N  H  L  I  P

CCTGCGCCGCCACTACCTTCACAAACAGACGGCGCGGCACGGGGAGGAACTGGTCATCTA   180
 P  A  P  P  L  P  S  Q  T  D  G  A  A  R  G  G  T  G  H  L

ATTAGCTCTACAGGAGCATTAGGATCTCGTTCATTGTTTTCTCCCCTGAGAAATTCTATG   240
 I  S  S  T  G  A  L  G  S  R  S  L  F  S  P  L  R  N  S  M

GCTGATTCTGTCGATTCCAGAGATATTCCAGGACTTCCTACAAACCCATCGAGGCTTGCT   300
 A  D  S  V  D  S  R  D  I  P  G  L  P  T  N  P  S  R  L  A

GCAGCTACATCTGAGACATGCTTGCTTGGAGGATTTGAAGTTCTCCATGATAAGGGGCCA   360
 A  A  T  S  E  T  C  L  L  G  G  F  E  V  L  H  D  K  G  P

CTTGATATTCTCAATACGCAAATTGGACCCTCTGCATTTCGTGTTGAAGTGCAGGCAGAT   420
 L  D  I  L  N  T  Q  I  G  P  S  A  F  R  V  E  V  Q  A  D

GGTACTCATGCCGCTATTGGAGAAAAAAATGGTTTGGAGGTTAGCGTTACATTAAGTCCT   480
 G  T  H  A  A  I  G  E  K  N  G  L  E  V  S  N  T  L  S  P

CAAGAATGGAGCAGCTTGCAATCTATTGATACTGAGGGTAAAAACAGATTTGTTTTTACC   540
 Q  E  W  S  S  L  Q  S  I  D  T  E  G  K  N  R  F  V  F  T

GGGGGACGTGGCGGTAGTGGGCATCCGATGGTCACTGTCGCATCAGATATCGCGGAAGCT   600
 G  G  R  G  G  S  G  H  P  M  V  T  V  A  S  D  I  A  E  A

CGTACGAAAATACTGGCCAAATTAGACCCAGACAATCATGGAGGACGTCAACCCAAGGAC   660
 R  T  K  I  L  A  K  L  D  P  D  N  H  G  G  R  Q  P  K  D

GTTGATACGCGTTCTGTTGGTGTTGGCAGCGCTTCGGGAATAGATGATGGCGTTGTTAGC   720
 V  D  T  R  S  V  G  V  G  S  A  S  G  I  D  D  G  V  V  S

GAAACCCATACTTCAACAACAAATTCGAGCGTTCGCTCAGATCCTAAATTCTGGGTTTCT   780
 E  T  H  T  S  T  T  N  S  S  V  R  S  D  P  K  F  W  V  S

GTCGGCGCAATTGCTGCTGGTTTAGCGGGACTGGCGGCAACTGGTATTGCACAGGCGTTG   840
 V  G  A  I  A  A  G  L  A  G  L  A  A  T  G  I  A  Q  A  L

GCTTTGACACCGGAACCGGATGATCCTACAACCACCGATCCTGATCAGGCCGCAAATGCT   900
 A  L  T  P  E  P  D  D  P  T  T  T  D  P  D  Q  A  A  N  A

GCAGAAAGTGCAACAAAAGATCAGTTAACGCAAGAAGCATTCAAGAACCCTGAGAACCAG   960
 A  E  S  A  T  K  D  Q  L  T  Q  E  A  F  K  N  P  E  N  Q

AAAGTTAACATCGATGCGAACggaaatgctattccgtctggggaattaaaagatgatatt   1020
 K  V  N  I  D  A  N  G  N  A  I  P  S  G  E  L  K  D  D  I

gttgagcaaatagcacaacaagctaaagaggctggtgaggtggccagacagcaggctgtt   1080
 V  E  Q  I  A  Q  Q  A  K  E  A  G  E  V  A  R  Q  Q  A  V

gaaagcaatgcacaggcgcagcagcgatatgaggatcagcatgccagacgtcaggaggaa   1140
 E  S  N  A  Q  A  Q  Q  R  ■  E  D  Q  H  A  R  R  Q  E  E

ttacagctttcatcgggtattggttacggcctcagcagtgcattgattgttgctgggga   1200
 L  Q  L  S  S  G  I  G  ■  G  L  S  S  A  L  I  V  A  G  G

attggtgctggtgtaacgactgcgctccatagacgaaatcagccggcagaacagacaact   1260
 I  G  A  G  V  T  T  A  L  H  R  R  N  Q  P  A  E  Q  T  T

actacaacaacacatacggtagtgcagcaacagaccggagggataccccagcacaaggtg   1320
 T  T  T  T  H  T  V  V  Q  Q  Q  T  G  G  I  P  Q  H  K  V

gcactgatgccacaagagcgaagacgcttctctgatagacgtgattcgcaggggagtgtt   1380
 A  L  M  P  Q  E  R  R  R  F  S  D  R  R  D  S  Q  G  S  V

gcatcgacacactggtcagattcctctagcgaagtggttaatccatatgctgaagttggg   1440
 A  S  T  H  W  S  D  S  S  S  E  V  V  N  P  ■  A  E  V  G

ggggctcggaatagtctatcggctcatcagccagaagagcatatttatgatgaggtcgct   1500
 G  A  R  N  S  L  S  A  H  Q  P  E  E  H  I  ■  D  E  V  A

gcagatcctggttatagcgttattcagaatttttcagggagcggcccagttaccggaagg   1560
 A  D  P  G  ■  S  V  I  Q  N  F  S  G  S  G  P  V  T  G  R

ttaataggaactccagggcaaggtatccaaagtacttatgcgcttctggcaaacagcggc   1620
 L  I  G  T  P  G  Q  G  I  Q  S  T  ■  A  L  L  A  N  S  G

ggattgcgtttaggtatgggaggattaacgagtggtggcgagacggcagtaagttctgta   1680
 G  L  R  L  G  M  G  G  L  T  S  G  G  E  T  A  V  S  S  V

aatgccgcaccaacgccgggaccagtacgtttcgtttaaatatatctgtgagtatttagt   1740
 N  A  A  P  T  P  G  P  V  R  F  V  •

tgaggttggggtggggtgggggggcgttttactagcgttaatgtttcagagaacaacgtt   1800

                                                   orfU ->
gcagcatgggtaactcttgaacttctgttattataatcaattaagagaaattataatgtc   1860
                                                       M  S

atcaagatctgaacttttattagataggtttgcggaaaaaattggtgttggatctatttc   1920
  S  R  S  E  L  L  L  D  R  F  A  E  K  I  G  V  G  S  I  S
```

FIG. 6B

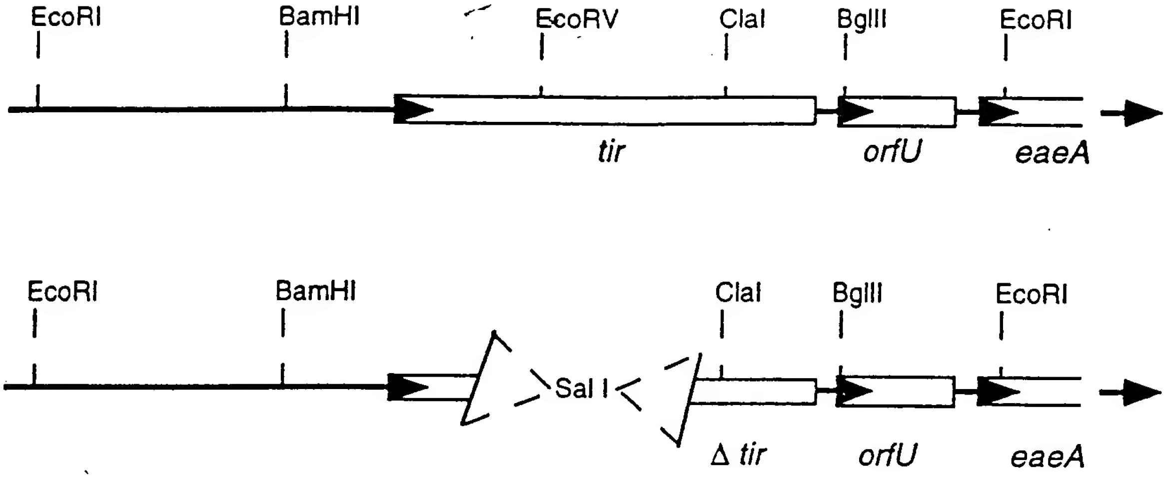

EcoRI
BamHI
EcoRV
ClaI
BglII
EcoRI
tir
orfU
eaeA
EcoRI
BamHI
Sal I
ClaI
BglII
EcoRI
Δ tir
orfU
eaeA

FIG. 7A

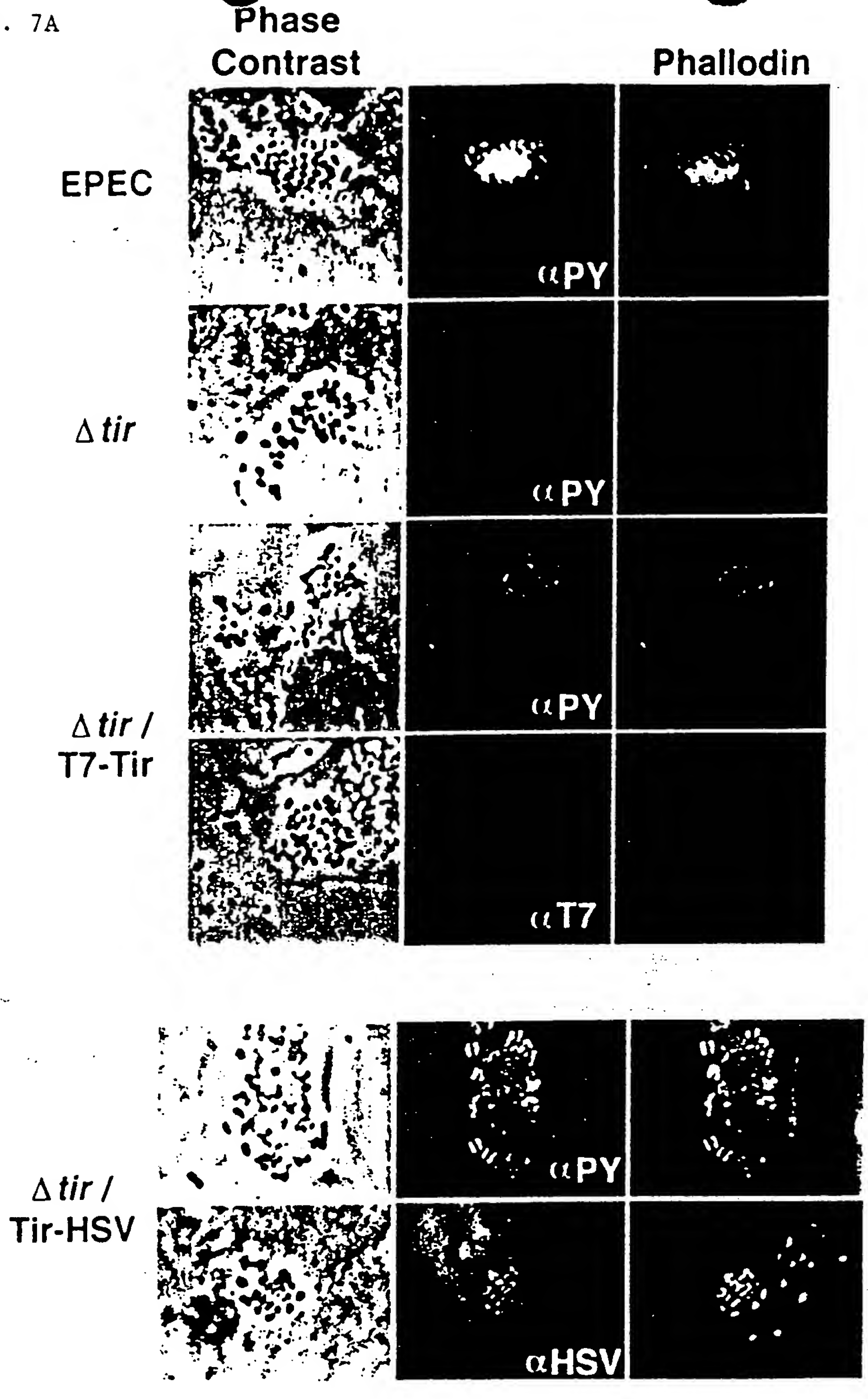

Phase Contrast
Phallodin
EPEC
αPY
Δ tir
αPY
Δ tir /
T7-Tir
αPY
αT7
Δ tir /
Tir-HSV
αPY
αHSV

FIG. 7B

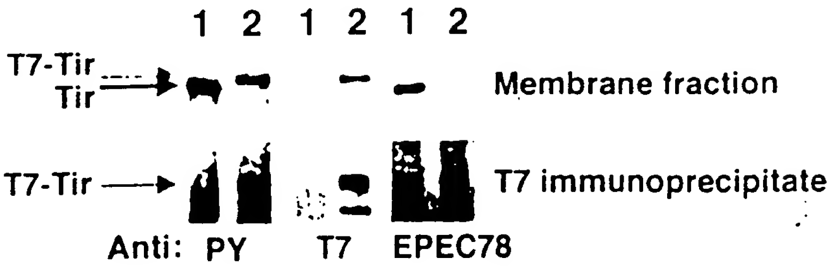
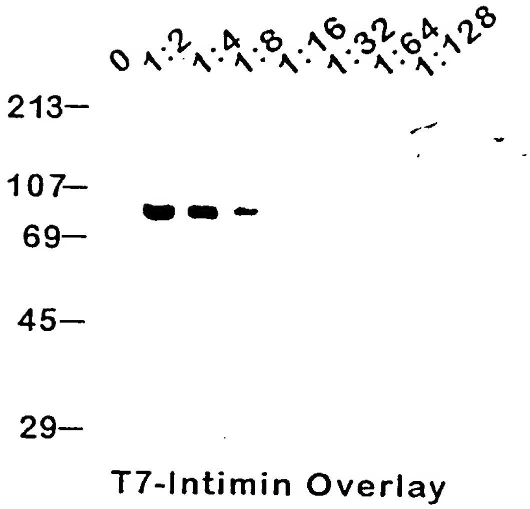
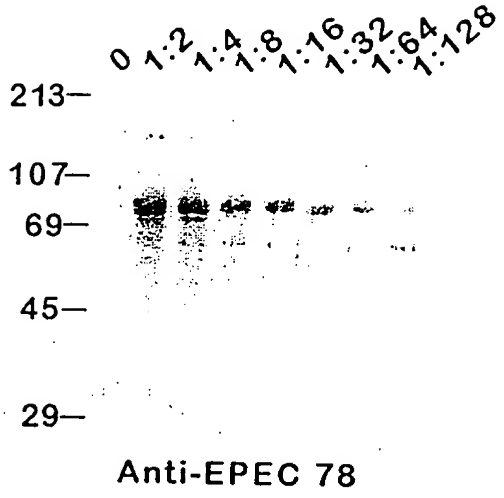

1 2 1 2 1 2
T7-Tir
Tir
Membrane fraction
T7-Tir
T7 immunoprecipitate
Anti: PY T7 EPEC78

FIG. 8A



T7-Intimin Overlay



Anti-EPEC 78

FIG. 8B

~200 Alla7.only

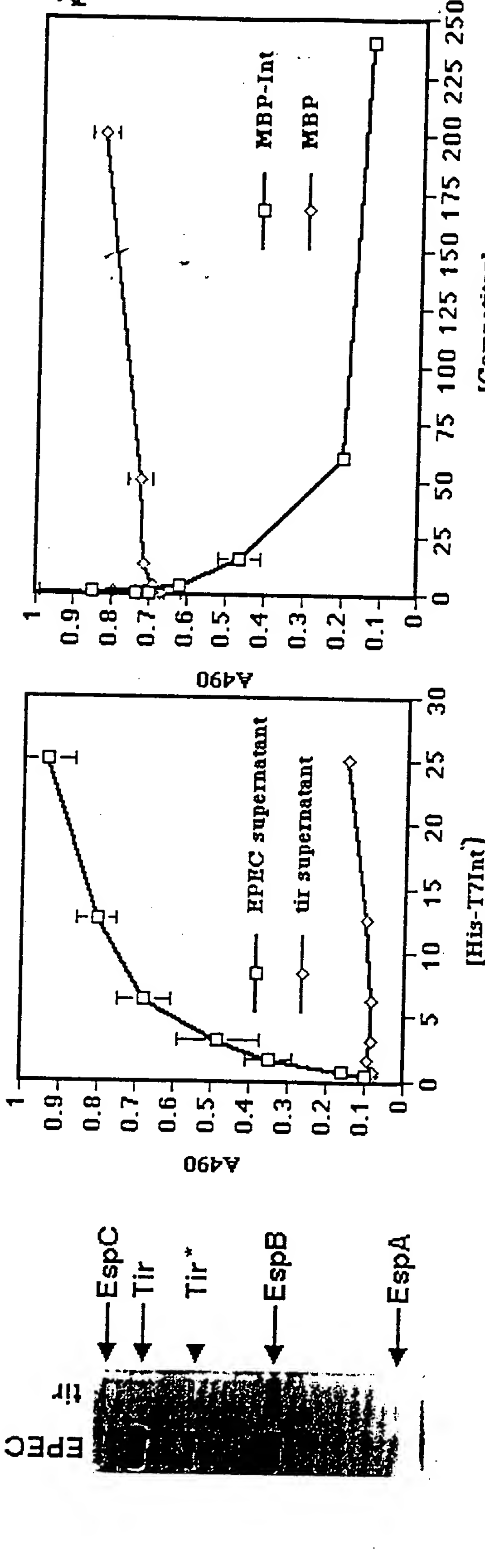
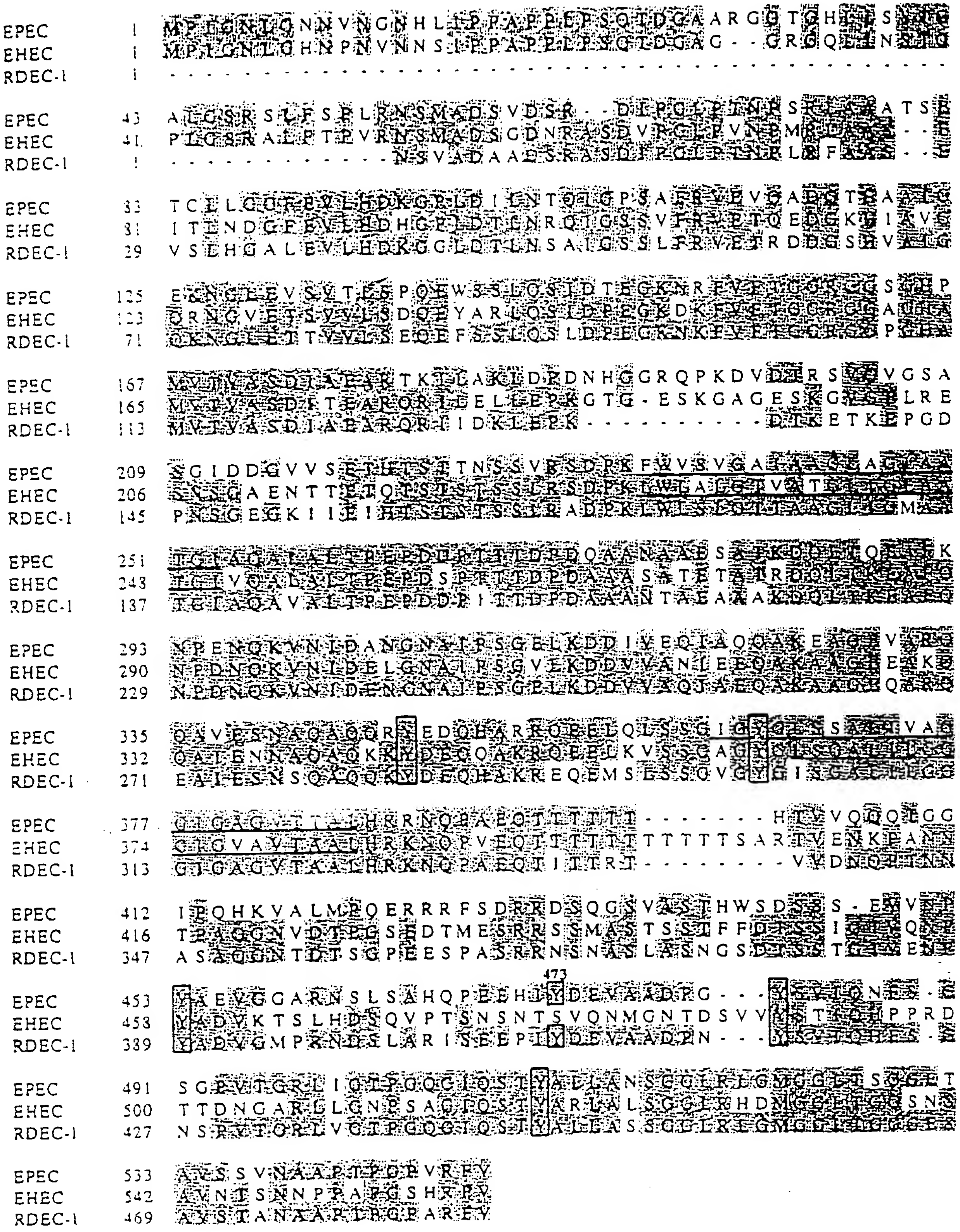


FIG. 9


EPEC 1
EHEC 1
RDEC-1 1
EPEC 43
EHEC 41
RDEC-1 1
EPEC 83
EHEC 81
RDEC-1 29
EPEC 125
EHEC 123
RDEC-1 71
EPEC 167
EHEC 165
RDEC-1 113
EPEC 209
EHEC 206
RDEC-1 145
EPEC 251
EHEC 248
RDEC-1 187
EPEC 293
EHEC 290
RDEC-1 229
EPEC 335
EHEC 332
RDEC-1 271
EPEC 377
EHEC 374
RDEC-1 313
EPEC 412
EHEC 416
RDEC-1 347
473
EPEC 453
EHEC 458
RDEC-1 389
EPEC 491
EHEC 500
RDEC-1 427
EPEC 533
EHEC 542
RDEC-1 469